

**REMARKS:**

Independent claim 1 is amended to recite subject matter previously recited in objected-to claim 28. Similarly, independent claim 42 is amended to recite subject matter previously recited in objected-to claim 47. Independent claims 18 and 19 are amended in a similar manner as independent claims 1 and 42. Dependent claims 25, 26, 44 and 45 are amended in view of the amendments to independent claims 1 and 42. Claims 27, 28, 46 and 47 are canceled herein without prejudice or disclaimer. These claim amendments are made for purposes of clarity and not in response to the claim rejections in the outstanding Office Action. No new matter is added.

Claims 2-12, 15-17, 20-24, 40, 59 and 62-65 were previously canceled without prejudice or disclaimer. In view of the above-noted claim amendments, claims 1, 13, 14, 18, 19, 25, 26, 29-39, 41-45, 48-58, 60, 61 and 66-71 are currently pending, with claims 1, 18, 19 and 42 being independent claims.

It is briefly noted that item number 4 of the Office Action Summary is incorrect. The pending claims were as identified in the previously-filed Response to Office Action. The Examiner correctly listed them for item numbers 6 and 7 of the Office Action Summary.

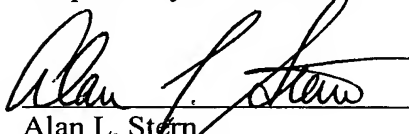
The Examiner objected to claims 25-28, 34, 35, 37, 39, 44-47, 53, 54, 56 and 58 as being dependent upon a rejected base claim. *See p. 13 of the Office Action.* The Examiner rejected claims 1, 13, 14, 18, 19, 29-33, 36, 38, 41-43, 48-52, 55, 57, 60, 61 and 66-71 under 35 U.S.C. §103(a) as being unpatentable over *Li et al.* (U.S. Patent Application Publication No. 2002/0015437, referred to herein as "*Li*") in view of *Zhang et al.* ("Reduced-State MIMO Sequence Estimation for EDGE Systems," Signals, Systems and Computers, 2002. Conference Record of the Thirty-Sixth Asilomar Conference, Nov. 3-6, 2002, Vol. 1, pp. 541-545, referred to herein as "*Zhang*"), *Olsson et al.* (U.S. Patent Application Publication No. 2005/0111596, referred to herein as "*Olsson*") and *Mayor et al.* (U.S. Patent Application Publication No. 2004/0042535, referred to herein as "*Mayor*"). *See pp. 3-13 of the Office Action.*

As noted above, claim 1 is amended to further recite subject matter previously recited in objected-to claim 28. The other independent claims, claims 18, 19 and 42, are amended in a similar manner. Due to the Examiner's indication that claim 28 recited allowable subject matter, it is believed that the amended independent claims recite allowable subject matter and, further, that the instant application thus should be in condition for allowance.

The claims are amended herein in order to expedite prosecution. Said claim amendments should not be construed as an admission, explicit or implicit, that the subject matter recited by the unamended claims is considered to be unpatentable, for example, in view of the cited prior art. Applicants respectfully reserve the right to file one or more continuation applications directed to further subject matter, such as unamended claims 1, 18, 19 and/or 42, as non-limiting examples.

The Examiner is respectfully requested to reconsider and remove the rejections of claims 1, 13, 14, 18, 19, 25, 26, 29-39, 41-45, 48-58, 60 and 61 under 35 U.S.C. §103(a) and to allow all of the pending claims as now presented for examination. For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record. Should any unresolved issue remain, the Examiner is invited to call Applicants' agent at the telephone number indicated below.

Respectfully submitted:



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Date

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